

PACKING SLIP

05 January, 2005

Address:

Alpen Helicopters
215 - 5333 - 216th Street
Langley, B.C.
V2Y 2N3

HOLD FOR PICK-UP IN LANGLEY DEPOT

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order:

Quantity Ordered	Quantity Shipped	Description	Part Number
Documents:			
2	2	Supplemental Type Certificate	SH98-45
2	2	Document Control List	2DCL307
2	2	Document Control List	A-307-DCL1
2	2	Flight Manual Supplement	FMS 30717
2	2	Maintenance Manual Supplement	MM307.02
2	2	Maintenance Manual Supplement	MM307.101
2	2	Rescue Hook Installation Drawing	206L-30701, Sht. 1
2	2	Rescue Hook Installation Drawing	206L-30701, Sht. 2
2	2	Suspension Line Installation Drawing	206L-30702
2	2	Suspension Line Assembly Drawing	30730-101
2	2	Release Certificate (Suspension Line)	PC003
2	2	Release Certificate (Swivel Ass'y)	PC003
2	2	Release Certificate (Trolley Blocks)	PC003

Suspension Line:

2	2	Suspension Line Assembly	30730-101
		(inc) Main Line Assembly	30731-101
		(inc) Lanyard Assembly	30732-101
		(inc) Extension Line Assembly	30733-101

Balance of Components for Rescue System:

4	4	Trolley Blocks	30750
1	1	Bolt	AN4-26A
2	2	Washers	AN960-416
1	1	Nut	MS21044N4

PACKING SLIP

22 April, 2004

Address:

Alpen Helicopters
215 – 5333 – 216th Street
Langley, B.C.
V2Y 2N3

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order:

Quantity Ordered	Quantity Shipped	Description	Part Number
1	1	Hook Attachment Fitting Assembly	206L-9803-1
1	1	Universal Swivel Fitting Assembly	206L-9804-1
1	1	Bushing	206L-9803-4
1	1	Nut, Castle, Self Locking, Low Profile	MS17826-12
2	3	Washer	AN960-12L
1	2	Cotter Pin	MS24665-355
1	1	Bolt	AN6-16
1	1	Bolt	AN6-21
2	2	Nut	AN310-6
4	6	Washer	AN960-616
2	4	Cotter Pin	MS24665-283

PACKING SLIP

22 May, 2003

Address:

Alpen Helicopters
215 – 5333 – 216th Street
Langley, B.C.
V2Y 2N3

HOLD FOR PICK-UP IN LANGLEY DEPOT

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order: 101920

Quantity Ordered	Quantity Shipped	Description	Part Number
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Documents:

1	1	Supplemental Type Certificate	SH98-45
1	1	Document Control List	A-307-DCL1
1	1	Document Control List	2DCL307
1	1	Flight Manual Supplement	206L-30717
1	1	Maintenance Manual Supplement	MM307.02
1	1	Maintenance Manual Supplement	MM307.04
1	1	Rescue Hook Installation Drawing	206L-30701, Sheet 1 of 2
1	1	Rescue Hook Installation Drawing	206L-30701, Sheet 2 of 2
1	1	Suspension Line Installation Drawing	206L-30702, Sheet 1 of 2
1	1	Alt. Suspension Line Installation Drawing	206L-30702, Sheet 2 of 2
1	1	Suspension Line Assembly	30730-101
1	1	Suspension Line Assembly	30730-201
1	1	Cyclic Stick Switch Bracket Ass'y	206L-9806
1	1	Release Cable Bracket	206L-9810
1	1	Part Details	206L-9819

Cargo Hook & Equipment:

✓ 1	1	Hook Attachment Ftg. Ass'y	206L-9803
✓ 1	1	Universal Swivel Ass'y	206L-9804
1	1	Modified Rescue Hook (Safety Cap, Bumper Plate, Bushings	206L-9805
1	1	Bumper Block	206L-9819-27

STOP FOR BEN

Quantity Ordered	Quantity Shipped	Description	Part Number
Hardware:			
✓ 1	1	Bolt	AN6-16
✓ 1	1	Bolt	AN6-22
✓ 4	4	Washer	AN960-616
1	1	Washer	AN960-1216L
✓ 2	2	Nut	AN310-6
10	10	Cotter Pin	MS24665-283
10	10	Cotter Pin	MS24665-357

Suspension Line:

-	1	Main Line Assembly	8904
1	1	Extension Line Assembly	30733-101
1	1	Lanyard Assembly	30732-101
1	b/o	Main Line Assembly	30731-101

Returned (Removed) Components:

-	2	Bushings	
-	1	Release Knob Ass'y	
-	1	Inspection Data Plate	

WORK ORDER

Order Date: 01/04/04
D / M / Y

W.O. Number # 2004-13
Current yyyy - 000

Customer Purchase Order: 101920

Expected Completion Date: _____

NOTE: A new file must be opened for each work order and a unique sequential number assigned.

This Work Order is part of a set of Incorporated Documents referenced in the Quality Program Manual of AERO Design Ltd. as Process Control Forms. It has been developed in compliance with the quality records requirements of an Approved Manufacturing Facility of aeronautical parts and products under CARS PART V Chapter 61, and AWM Advisories 561/1, 2, 3A & 4 effective January 1, 1986.



President, AERO Design Ltd.

A. PREPARATION

1. Type Approval Authority

All work detailed in this Work Order is to be completed in accordance with:

Supplemental Type Certificate: SH98-45 Issue: 3

2. Scope of Work

Component Parts

☒ Fabrication of 2 Hook Attachment and Swivel Ass'y 9803 & 9804
4 Trolley Blocks 30750

☐ Traceability: Date of Manufacture: _____

☒ ~~Document Serial Numbers in this Work Order Section D - Final Inspection & Sign-Off of Aeronautical Products~~ N/A

3. Work Order Package Preparation

☒ Document Control List: A-307-DCL1 Rev.13

☒ Set of new drawings for fabrication.

Notes: _____

W.O. Number # 2004-13
Current yyyy – 000

☐ **Component fabrication:**

[illegible]

Notes: _____

Order Date: 01/04/04
D / M / Y

W.O. Number # 2004-13
Current yyyy - 000

C. INSPECTION & SIGN-OFF OF COMPONENT PARTS & ASSEMBLIES

1. Inspection of Component Parts

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

Date

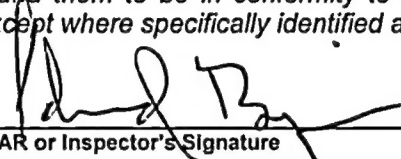

Inspector's Signature

D. FINAL INSPECTION & SIGN-OFF OF AERONAUTICAL PRODUCTS

ITEM	SERIAL NUMBER	ACCEPT YES/NO	NON-CONFORMANCES Non-Conformance Report #'s	ADDITIONAL REMARKS
1				

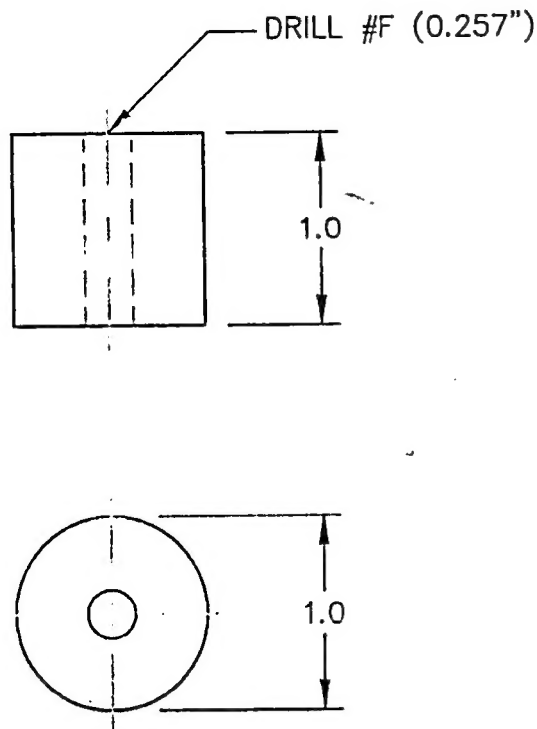
I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

20 APR 2004
Date


DAR or Inspector's Signature

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	STF	MAY 11/04



2	30750-01	01	TROLLEY BLOCK	6061 ALUMINUM	QQ-A-225/8	1.0" ROUND BAR
QTY	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE

LIST OF MATERIALS

APPROVALS	DATE
DRAWN: S. FAHEY	MAY 11/04
CHECKED: E. BURGOIN	MAY 11/04

AERO DESIGN LTD.
CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M
2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7
tel: (403) 250-8027 fax: (403) 250-8333 aerodesign@telusplanet.net

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
DECIMALS ANGLES
X.XXX ±0.010 ±1/2°
X.XX ±0.03
X.X ±0.1

HELICOPTER RESCUE SYSTEM
BELL 206L/L1/L3/L4 HELICOPTERS
TROLLEY BLOCKS

SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.	
SHEET 1 OF 1	A4	30750	0	

AERO Design Ltd.
2013 - 39th Ave. NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: SUSPENSION LINE ASSY Part #: 30730-101

Approval #: SH 98-45 Serial #: MFD. NOV. 2004

WO #: 2004-12 Quantity: 2

Eligibility: BELL 206L / MD 369+500 Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

JAN 5/05
Date

[Signature]
DAR or Inspector's Signature

AERO Design Ltd.
2013 - 39th Ave. NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: TROLLEY BLOCKS Part #: 30750

Approval #: SH 98-45 ISS. 3 Serial #: _____

WO #: 2004-13 Quantity: 4

Eligibility: BELL 206L-SERIES Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

5 JAN 2005
Date

[Signature]
DAR or Inspector's Signature

AERO Design Ltd.
2013 - 39th Ave. NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: HOOK ATTACH + SWIVEL ASSY Part #: 9803 & 9804

Approval #: SH 98-45 ISS. 3 Serial #: _____

WO #: 2004-13 Quantity: 2 ASSEMBLY

Eligibility: BELL 206L SERIES Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

22 APRIL 2004
Date

[Signature]
DAR or Inspector's Signature

WORK ORDER

Order Date: 01/10/04
D / M / Y

W.O. Number # 2004-12
Current yyyy - 000

Customer Purchase Order: 101920

Expected Completion Date: _____

NOTE: A new file must be opened for each work order and a unique sequential number assigned.

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President, AERO Design Ltd.

A. PREPARATION

1. Type Approval Authority

All work detailed in this Work Order is to be completed in accordance with:

Supplemental Type Certificate: SH98-45 Issue: 3

2. Scope of Work

a) Complete Product

☒ Fabrication of 2, Suspension Line System 30730-101
Qty Item

☒ Traceability: Date of Manufacture: NOV 2004

☐ ~~Document Serial Numbers in this Work Order Section D - Final Inspection & Sign-Off of Aeronautical Products~~ N/A.

3. Work Order Package Preparation

☒ Document Control List: 2DCL307 Rev.2

☒ Full set of new drawings for complete fabrication.

Notes: _____

Order Date: 01/10/04
D/M/Y

W.O. Number # 2004-12
Current yyyy - 000

B. PARTS LIST

☒ Complete fabrication: This list may *not* be used as Final Inspection Record.

Qty	Part No.	Description	Materials	Tracking Number	Final Inspection
				PO# for raw stock WO# for finished component parts	(Parts mfg only) Accept (A) Non-Conforming (NC)
ALL	ALL ON DCL		7/16 ULTRA	SUPPLIED TO	
			TECH ROPE	BRIAN TOSS	
			SAMSON	DIRECT FROM	
				SAMSON	
COMPONENT PARTS					
2		EYE BOLTS	CROSBY	COMMERCIAL	ITEMS - A
A/R		THIMBLES	CROSBY	COMMERCIAL	ITEMS - A
2	30734	WEIGHT	2.5" 4130	4009	- A
4	09351	CARABINER	PENINSULA	COMMERCIAL	- A
10	5011	RING	CARLETON	COMMERCIAL	A

Notes: _____

Order Date: 01/10/04
D / M / Y

W.O. Number # 2004-12
Current yyyy - 000

C. INSPECTION & SIGN-OFF OF COMPONENT PARTS & ASSEMBLIES

1. Inspection of Component Parts

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

Date

Inspector's Signature

D. FINAL INSPECTION & SIGN-OFF OF AERONAUTICAL PRODUCTS


ITEM	SERIAL NUMBER	ACCEPT YES/NO	NON-CONFORMANCES Non-Conformance Report #'s	ADDITIONAL REMARKS
1	NOV. 2004	Y		
2	NOV. 2004	Y		

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

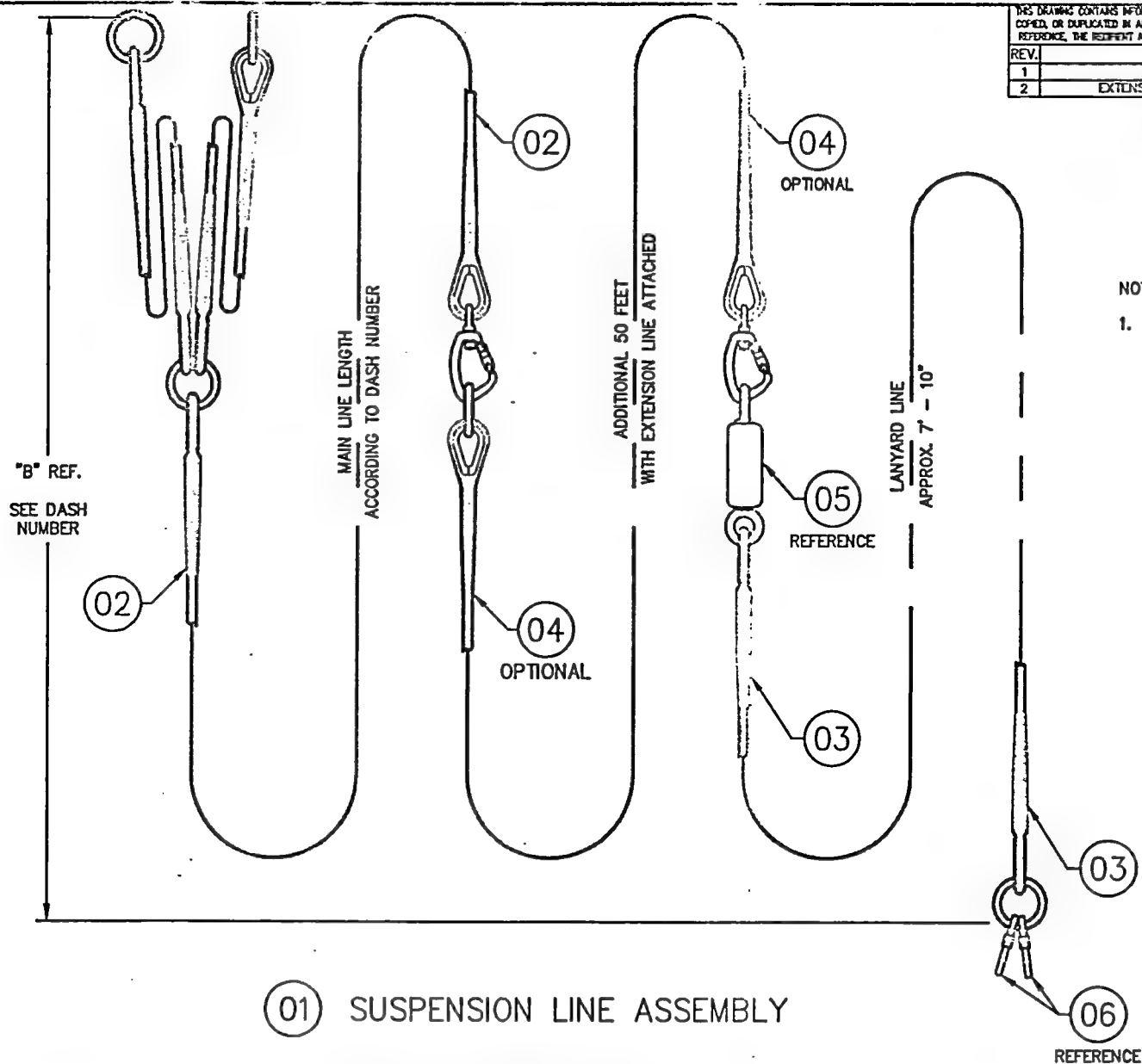
NOV. 2004
Date

S. J. HAY
DAR or Inspector's Signature

DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
INSTALLATION DOCUMENTS 30730-101 MM307.101	Suspension Line Assembly Maintenance Manual Supplement	2 0
FABRICATION DOCUMENTS 30731-101 30732-101 30733-101 30734-101 30735-101	Main Line Assembly Lanyard Assembly Extension Line Assembly Weight Assembly Splicing Instructions	2 2 2 2 0
ENGINEERING DOCUMENTS ER307.101 FTR377.02	Engineering Report - Suspension Line Assembly Flight Test Report - MD 369 and 500N	1 0
APPROVAL:		
 Transport Canada Transports Canada AIRCRAFT CERTIFICATION DIVISION APPROVED By: <i>[Signature]</i> Appl No. <u>SH98-45</u> Appl Date <u>98-08-12</u> Issue No. <u>3</u> Issue Date <u>04-04-23</u> YY-MM-DD REVISED 04-07-23 <i>[Signature]</i>	ORIGINAL DATE: 13 March, 2001 REVISION DATE: 1 June, 2004	AERO DESIGN LTD. 2013 - 39 th Avenue. NE Calgary, Alberta T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333
	SHEET 1 OF 1	HELICOPTER RESCUE SYSTEM SUSPENSION LINE ASSEMBLY SAMSON ULTRA-TECH (443) ROPE
	<div> <div>2DCL307</div> <div>Rev.</div> <div>2</div> </div>	

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	REMOVED REDUNDANT CARABINER NOTE	STF	OCT 10/03
2	EXTENSION LINE ELIMINATED, SELECTION OF LENGTHS, REDRAWN	STF	JUN 01/04



NOTES:

- CAUTION: ONLY ONE STRAP OR RING SHOULD BE INSTALLED INTO EACH END OF ANY CARABINER. USE OF ANY CARABINER AS A MASTER RING FOR SPLITTING OFF TWO OR MORE LOADS IS PROHIBITED.

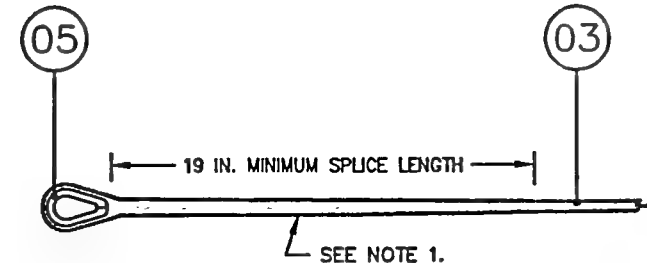
QTY.	QTY.	QTY.	QTY.	QTY.	PART NO.	ITEM	DESCRIPTION	LENGTH
2	2	2	2	2	30734-101	06	CARABINER (REFERENCE)	CSA/ANSI/NFPA/CE
1	1	1	1	1	30733-101	05	WEIGHT ASSEMBLY (REFERENCE - INCL IN 30732-101)	
1	1	1	1	1	30732-101	04	EXTENSION ASSEMBLY (OPTIONAL)	50'
1	1	1	1	1	30731-101	03	LANYARD ASSEMBLY	6' - 7'
-150	-125	-100	-75	-50	30730-101	02	MAIN LINE ASSEMBLY	ACCORDING TO DASH f
					30730-101	-150	SUSPENSION LINE ASSEMBLY	"B" = 150'
					30730-101	-125	SUSPENSION LINE ASSEMBLY	"B" = 125'
					30730-101	-100	SUSPENSION LINE ASSEMBLY	"B" = 100'
					30730-101	-75	SUSPENSION LINE ASSEMBLY	"B" = 75'
					30730-101	-50	SUSPENSION LINE ASSEMBLY	"B" = 50'

APPROVALS	DATE	AERO DESIGN LTD.		
DRAWN: DAVID WAGNER	03 MAR 2001			
CHECKED: E. BURGAIN	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 59TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 Tel: (403) 250-8027 Fax: (403) 250-8333 aerd@design@telusplanet.net		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES		HERZOG ULTRA-TECH ROPE SUSPENSION LINE SUSPENSION LINE ASSEMBLY		
		NOT TO SCALE	DWG. SIZE A4	DWG. NO. 30730-101
SHEET 1 OF 1		REV. 2		

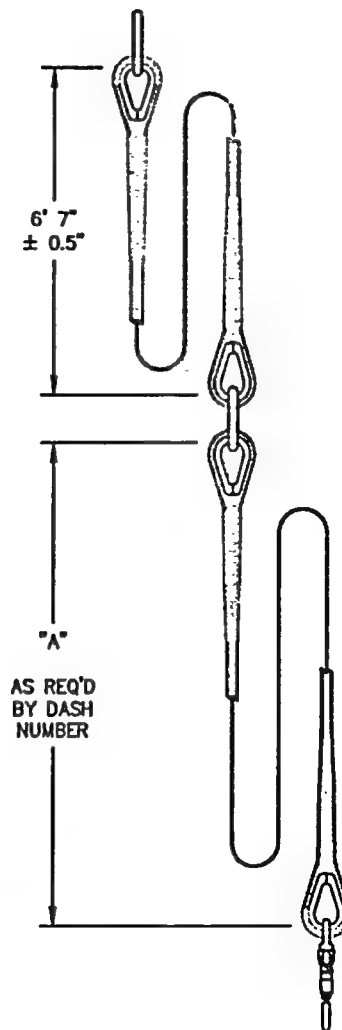
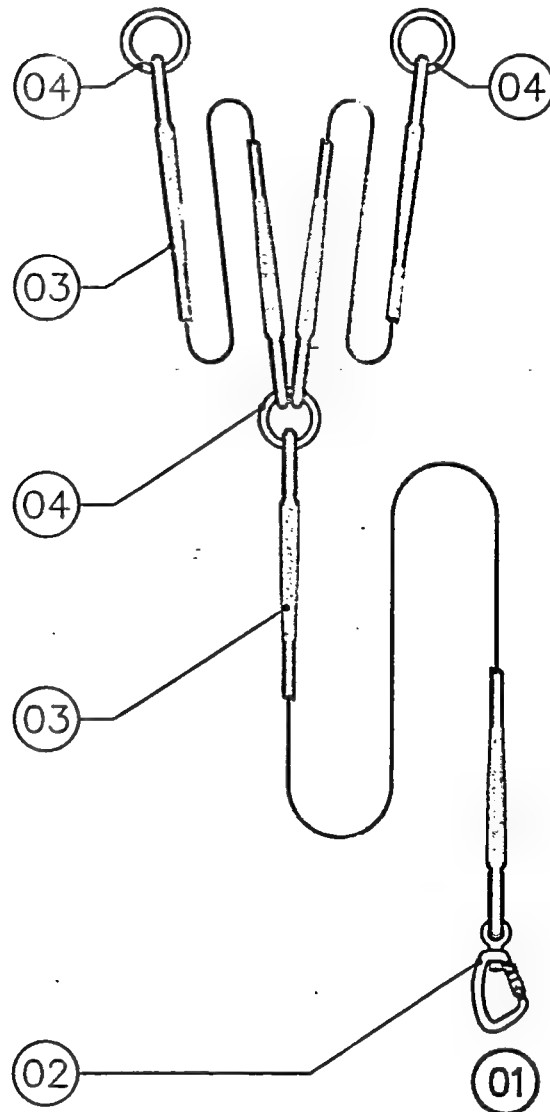
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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED LOAD, COMPONENTS CHANGED	STF	OCT 09/03
2	TEST METHOD CHANGED, SELECTION OF LENGTHS, REDRAWN & UPDATED	STF	JUN 01/04

NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. MAIN LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.



DETAIL "A" - SPLICE DETAILS

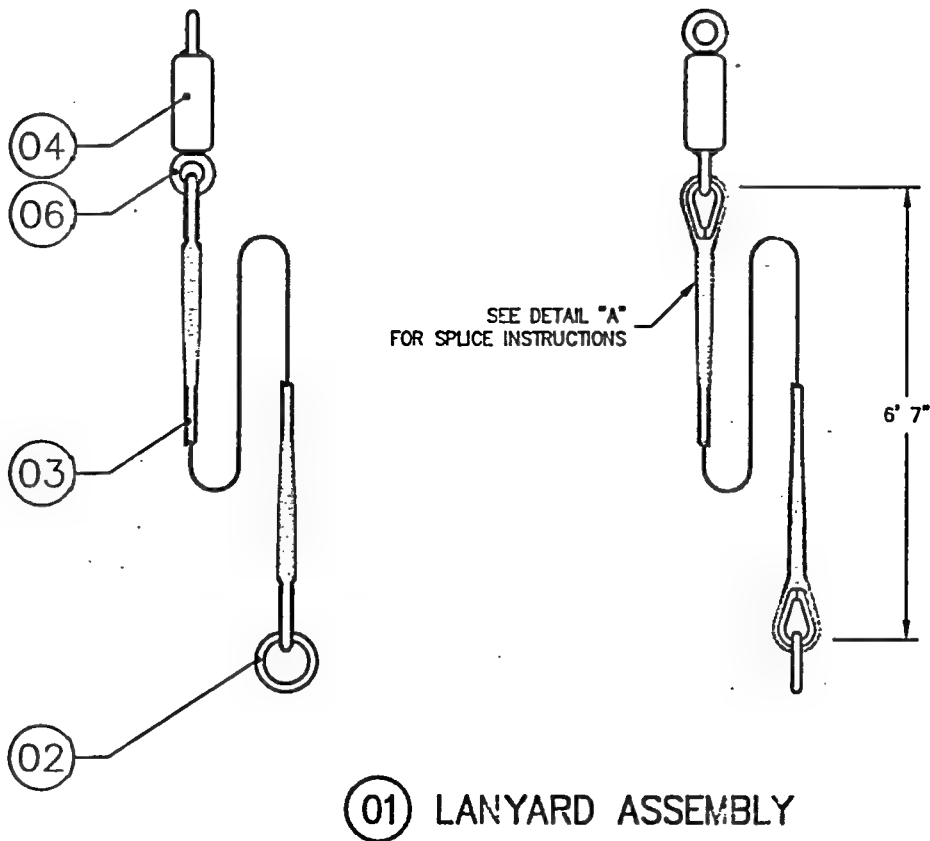


MAIN LINE ASSEMBLY

6	6	6	6	6	G411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
3	3	3	3	3	5011	04	RING	US FORGECAST	
A/R	A/R	A/R	A/R	A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1	1	1	1	1	C9531	02	SWIVEL EYE CARABINER	PENINSULA SAFETY	
					30731-101	-150	MAIN LINE ASSEMBLY		"A" = 134'-7"
					30731-101	-125	MAIN LINE ASSEMBLY		"A" = 109'-7"
					30731-101	-100	MAIN LINE ASSEMBLY		"A" = 84'-7"
					30731-101	-75	MAIN LINE ASSEMBLY		"A" = 59'-7"
					30731-101	-50	MAIN LINE ASSEMBLY		"A" = 34'-7"
-150	-125	-100	-75	-50	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	SIZE
QTY.	QTY.	QTY.	QTY.	QTY.	LIST OF MATERIALS				

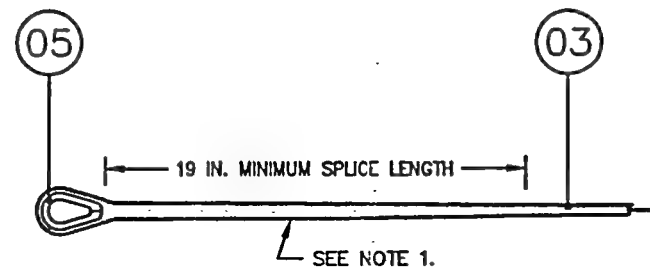
APPROVALS		DATE	AERO DESIGN LTD.	
DRAWN:	DAVID WAGNER	03 MAR 2001		
CHECKED:	E. BURGOIN	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2015 - 30TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 Tel: (403) 250-8087 Fax: (403) 250-8553 aerodesign@telusplanet.net	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X-X' ±6" -			HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE MAIN LINE ASSEMBLY	
NOT TO SCALE		DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 1		A4	30731-101	2

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED LOAD, COMPONENTS CHANGED	STF	OCT 09/03
2	TEST METHOD CHANGED, REDRAWN & UPDATED	STF	JUN 01/04



NOTES

- SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPlicing INSTRUCTIONS, ULTRA-TECH ROPE".
- MAIN LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
- ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.

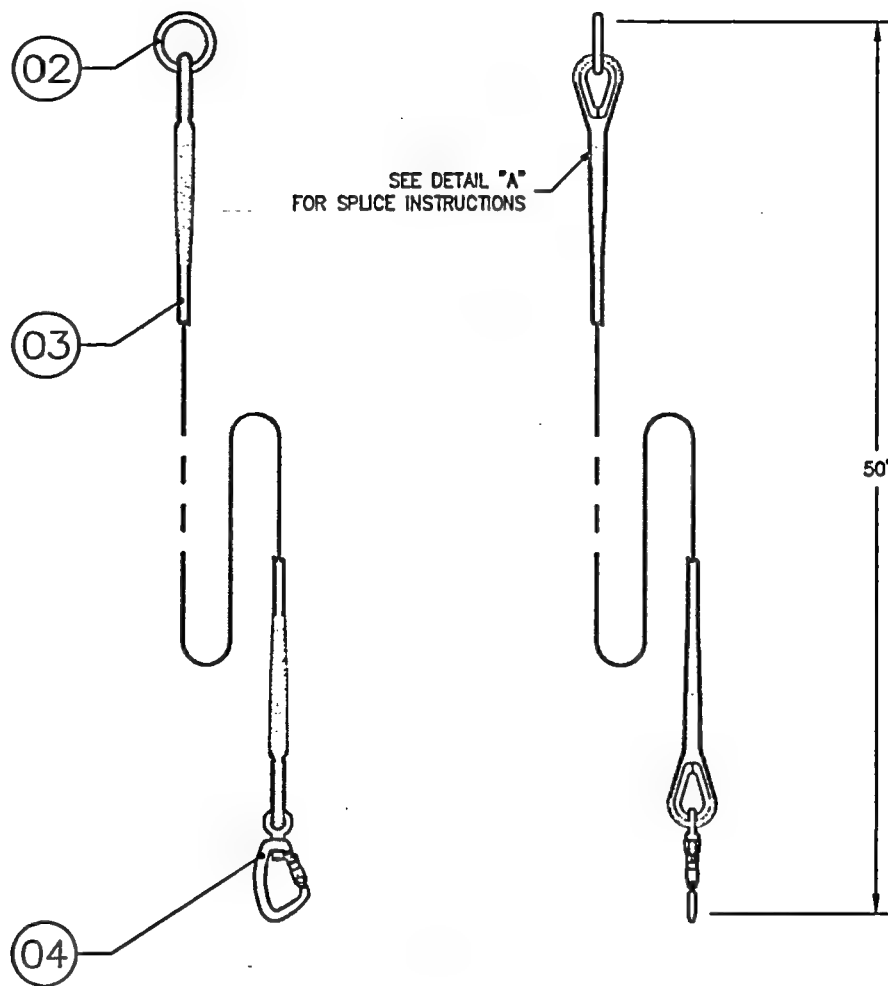


DETAIL "A" - SPLICE DETAILS

QTY.	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC.
1	S-279-9900235	06	SHOULDER EYE BOLT	CROSBY CANADA LTD.	
2	G411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
	30734-101	04	WEIGHT ASSEMBLY (REF)		
A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1	5011	02	RING	CARLETON RESCUE	
	30732-101	01	LANYARD ASSEMBLY		
01					

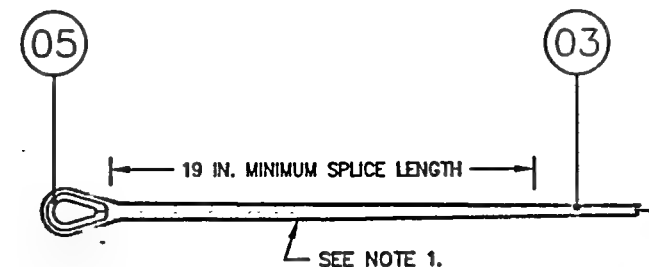
APPROVALS	DATE	AERO DESIGN LTD.			
DRAWN: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M			
CHECKED: E. BURGON	03 MAR 2001	2015 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7			
		Tel: (403) 250-802 Fax: (403) 250-8333 aerodesign@telusplanet.net			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X"-X" ±6" -		HELICOPTER RESCUE LINE			
		HERZOG ULTRA-TECH ROPE SUSPENSION LINE			
		LANYARD ASSEMBLY			
NOT TO SCALE		DWG. SIZE	DWG. NO.	REV.	
SHEET 1 OF 1		A4	30732-101	2	

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED LOAD, COMPONENTS CHANGED	STF	OCT 09/03
2	TEST METHOD CHANGED, REDRAWN & UPDATED	STF	JUN 01/04



NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. MAIN LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.



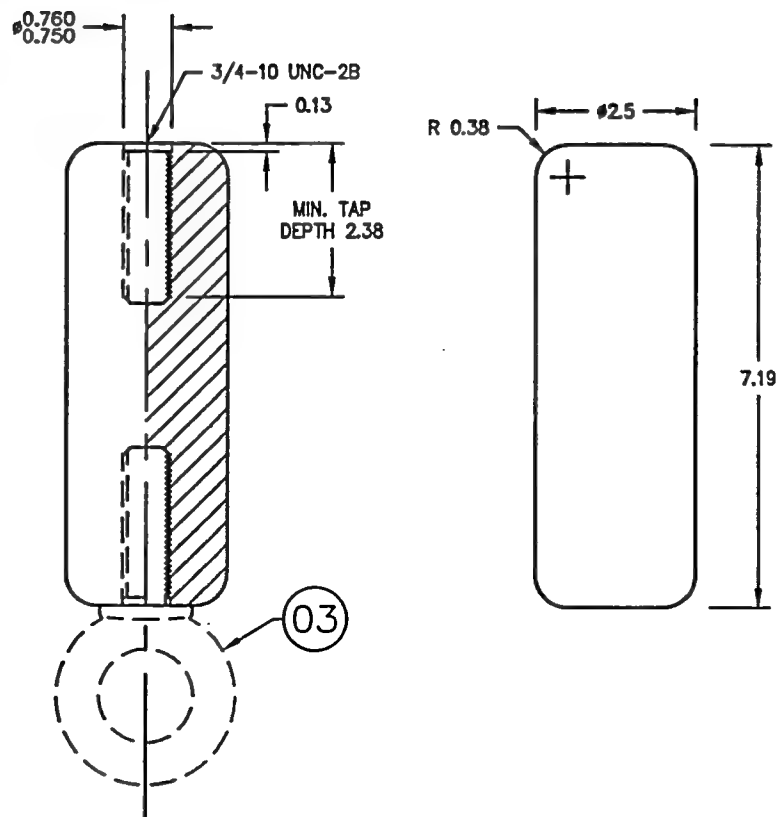
DETAIL "A" - SPLICE DETAILS

01 EXTENSION ASSEMBLY

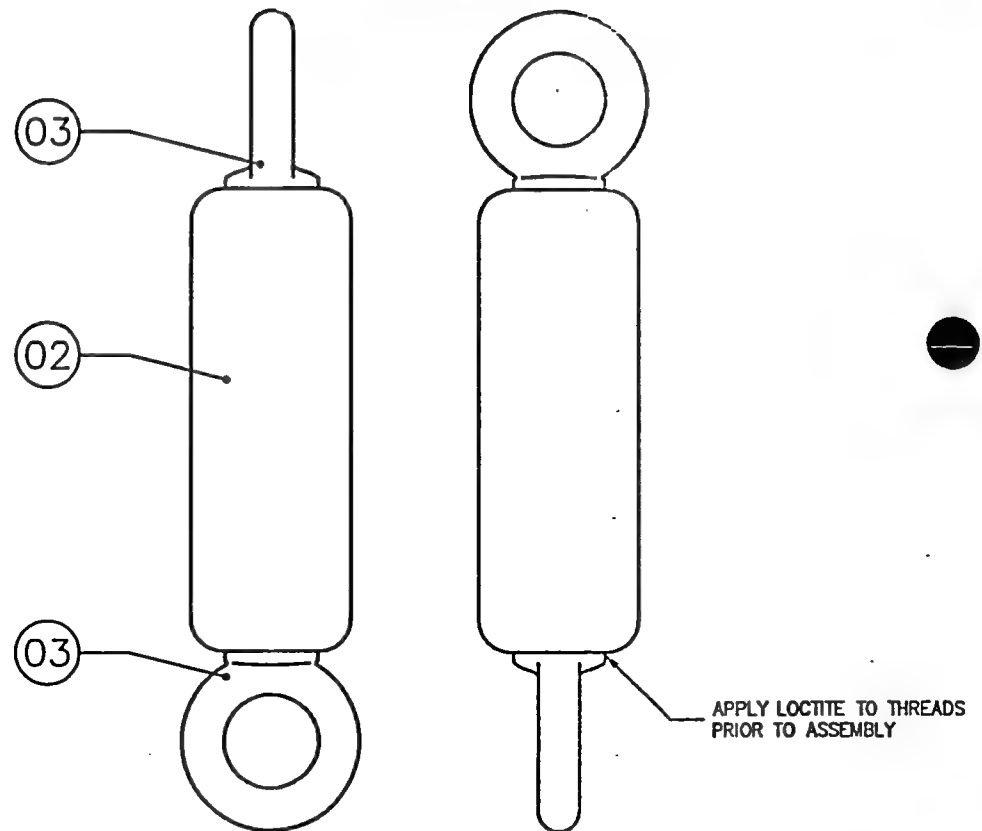
2	G411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
1	C9531	04	SWIVEL EYE CARABINER	PENINSULA SAFETY	
A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1	5011	02	RING	CARLETON RESCUE	
	30733-101	01	EXTENSION LINE ASSEMBLY		
QTY.	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC.
LIST OF MATERIALS					

APPROVALS		DATE	AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 Tel: (403) 250-8087 Fax: (403) 250-8333 arodesign@telusplanet.net		
DRAWN: DAVID WAGNER		03 MAR 2001			
CHECKED: E. BURGON		03 MAR 2001			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X-X" ±6" —			HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE EXTENSION ASSEMBLY		
NOT TO SCALE			DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 1			A4	30733-101	2

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED TEST LOAD	STF	OCT 08/03
2	TEST METHOD CHANGED, REDRAWN & UPDATED	STF	JUN 01/04



(02) WEIGHT



(01) WEIGHT ASSEMBLY

NOTES:

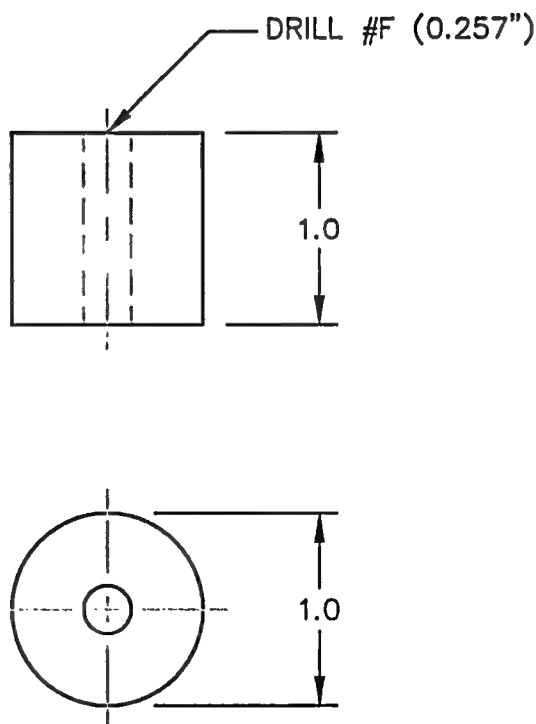
1. THOROUGHLY DEGREASE WEIGHT ASS'Y. POWDER COAT "CATERPILLAR YELLOW".

QTY.	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.	MATERIAL SPEC.
2	S-279-9900235	03	MACHINERY EYE BOLT	CROSBY		3/4" X 2" EYE BOLT
1	30734-02	02	WEIGHT	4130 RND. BAR	ASTM A751 / NACE MR 175	#2.5 ROUND
	30734-101	01	WEIGHT ASSEMBLY			
LIST OF MATERIALS						

APPROVALS	DATE	AERO DESIGN LTD.			
DRAWN: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M			
CHECKED: E. BURGON	03 MAR 2001	2015 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7			
		Tel: (403) 250-8027 Fax: (403) 250-8333 aérodesign@valerplanet.net			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:		HERZOG ULTRA-TECH ROPE SUSPENSION LINE WEIGHT ASSEMBLY			
DECIMALS		NOT TO SCALE			
ANGLES		Dwg. SIZE			
X-X° ±6°		Dwg. NO.			
		SHEET 1 OF 1			
		A4			
		30734-101			
		2			

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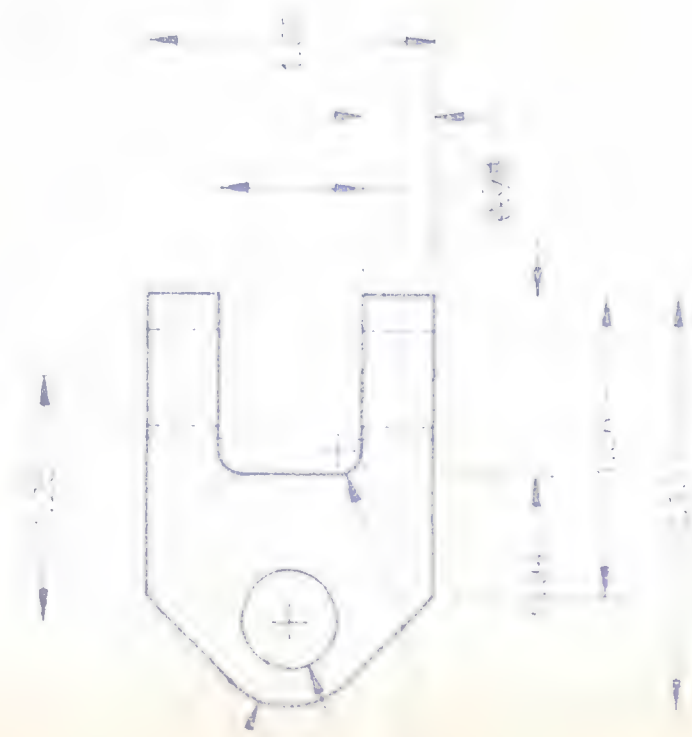
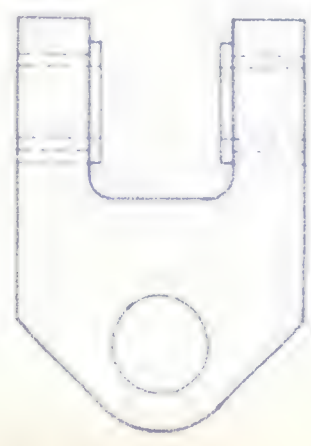
REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	STF	MAY 11/04



2	30750-01	01	TROLLEY BLOCK	6061 ALUMINUM	QQ-A-225/8	1.0" ROUND BAR
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY	LIST OF MATERIALS					

	APPROVALS	DATE	AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 aerodesign@telusplanet.net			
	DRAWN: S. FAHEY	MAY 11/04				
	CHECKED: E. BURGOIN	MAY 11/04				
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ±0.010 ±1/2° X.XX ±0.03 X.X ±0.1		HELICOPTER RESCUE SYSTEM BELL 206L/L1/L3/L4 HELICOPTERS TROLLEY BLOCKS			
		SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.	
		SHEET 1 OF 1	A4	30750	0	

- NOTES
1. SANDBLAST ALL UNMACHINED SURFACES OF SWIVEL BODY, ITEM 2, THOROUGHLY DEGREASE AND CLEAN.
 2. MAGNAFLUX SWIVEL BODY, ITEM 2, PRIOR TO PAINTING.
 3. PAINT SWIVEL BODY, ITEM 2, COLOUR INDUSTRIAL YELLOW.
 4. LUBRICATE BORE OF BUSHING, ITEM 3, WITH GREASE TO MIL-G-23827 OR MIL-G-81322 ON ASSEMBLY.
 5. PROOF LOAD EACH FITTING TO 3,000 LB.



① UNIVERSAL SWIVEL ASSY

② SWIVEL BODY

206L-9804

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ITEM NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.	STOCK SIZE
7786-037	3	BUSHING			
9804-02	2	SWIVEL BODY	STEEL PLATE, 4130 COND. N		
206L-9804	1	UNIVERSAL SWIVEL ASSY			

APPROVALS	DATE
E. BURGON	10 OCT 93

AERO DESIGN LTD.
1055 McTAVISH ROAD N.E.
CALGARY, ALBERTA T2E 7G9

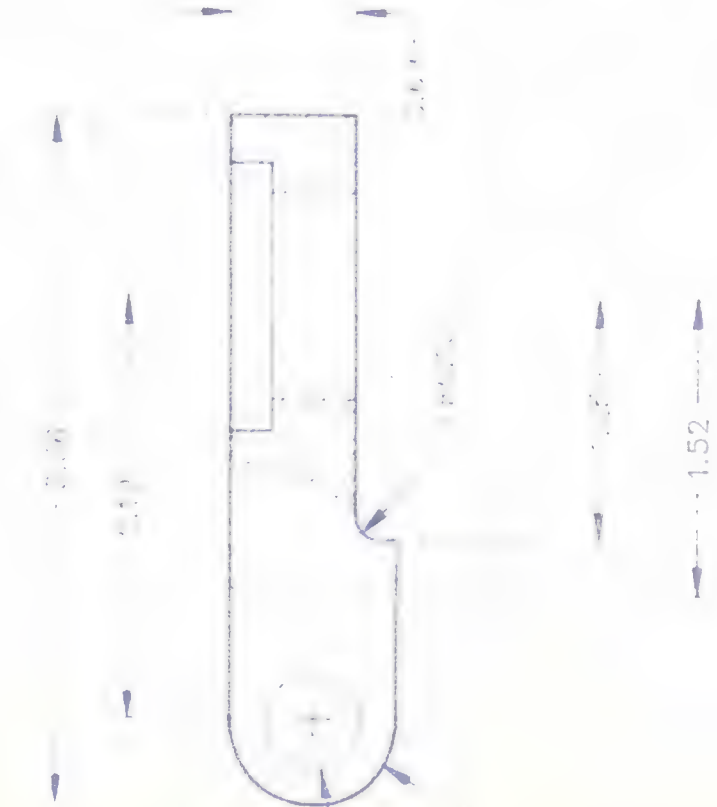
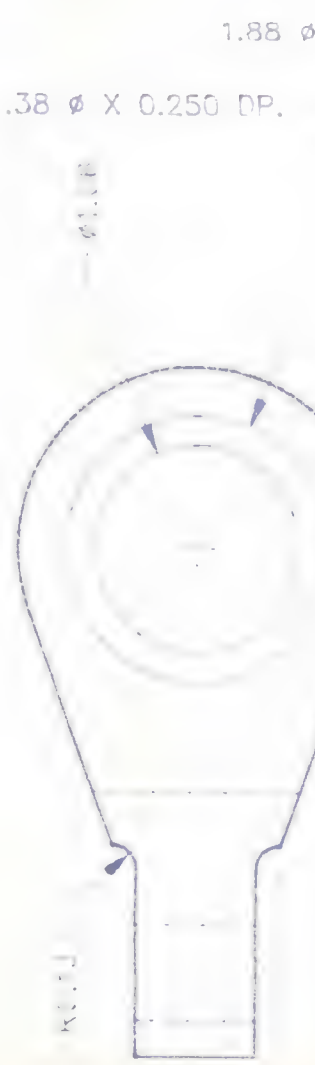
UNIVERSAL SWIVEL ASSY

SCALE 1 : 1

SHEET 1 OF 1

REV. 0

- NOTES
1. SANDBLAST ALL UNMACHINED SURFACES OF FITTING BODY, ITEM 2, THOROUGHLY DEGREASE AND CLEAN.
 2. MAGNAFLUX FITTING BODY, ITEM 2, PRIOR TO PAINTING.
 3. PAINT FITTING BODY, ITEM 2, COLOUR INDUSTRIAL YELLOW.
 4. LUBRICATE ALL SURFACES OF BUSHING, ITEM 4, WITH GREASE TO MIL-G-23827 OR MIL-G-61322 ON ASSEMBLY.
 5. PROOF LOAD EACH FITTING TO 3,000 LB.



① HOOK ATTACHMENT FITTING ASSY

② FITTING BODY

206L-9803

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ITEM NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.	STOCK SIZE
206L-014	4	BUSHING	STEEL TUBE, 4130 COND. N	MIL-T-6736	0.875 O.D. X 1.000 I.D.
206L-014	4	BUSHING			
206L-014	3	BUSHING			
206L-014	2	FITTING BODY	STEEL PLATE, 4130 COND. N	MIL-S-18729	
206L-9803	1	HOOK ATTACHMENT FITTING ASSY			

APPROVALS	DATE
E. BURGON	10 OCT 93

AERO DESIGN LTD.
1055 McTAVISH ROAD N.E.
CALGARY, ALBERTA T2E 7G9

HOOK ATTACHMENT FITTING ASSY

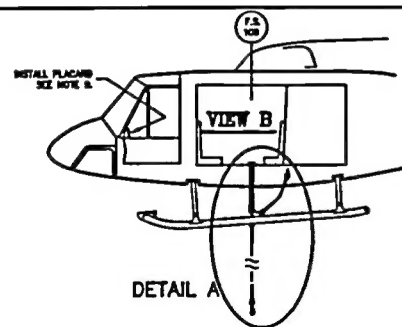
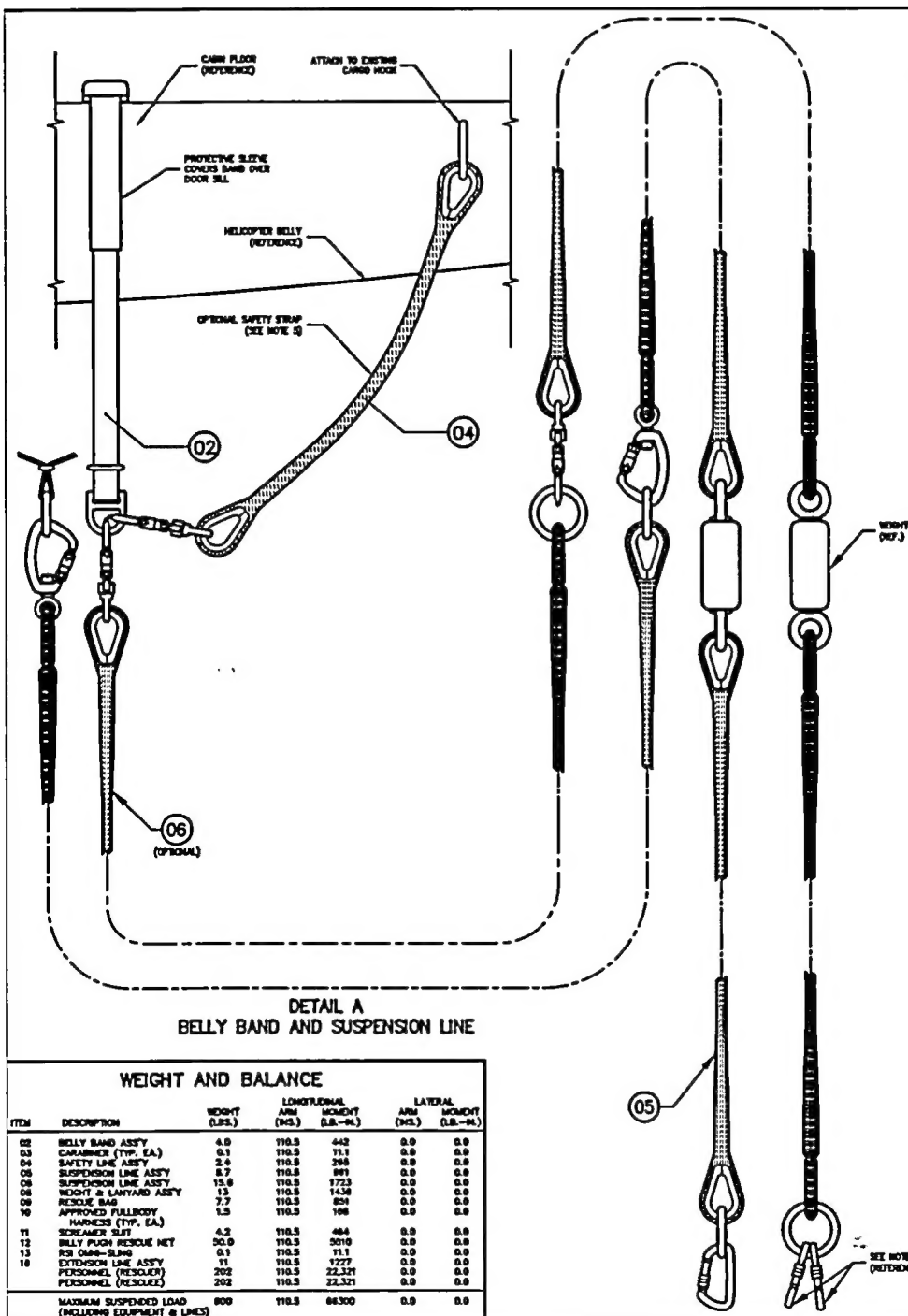
SCALE 1 : 1

SHEET 1 OF 1

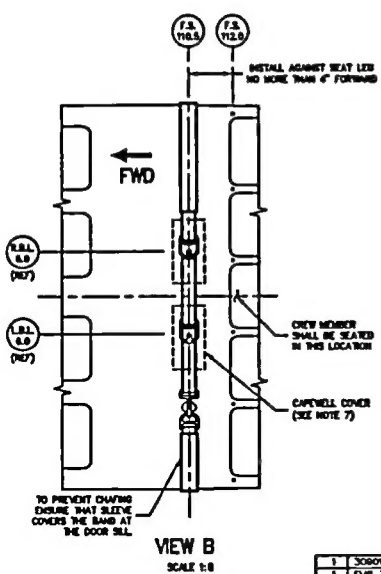
REV. 0

DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
INSTALLATION DOCUMENTS		
30901	Installation drawing	5
FMS 30901	Flight Manual Supplement	6
MM 30903	Maintenance Manual	4
FABRICATION DOCUMENTS		
30904	Fabrication drawing – Belly Band	2
30905	Fabrication drawing – Capewell Cover	0
30910	Fabrication drawing – Protective Sleeve	0
30732-401	Rescue System Lanyard Line Assembly	0
30733-401	Rescue System Extension Line Assembly	0
30735-101	Splicing Instructions for Ultra-Tech Rope	0
ENGINEERING DOCUMENTS		
ER309.02	Engineering Report	0
TP309.01	Flight Test Plan	1
TR309.03	Flight Test Report	0
ER307.101	Engineering Report – Ultra-Tech Ropes	1
TR307.02	Rope Load Test Report	0
APPROVAL:	ORIGINAL DATE: 30 September 1998	AERO DESIGN LTD. 1045 McTavish Rd. NE Calgary, Alberta T2E 7G9 Ph. (403) 250-8027 Fax. (403) 250-8333
	REVISION DATE: Rev. 3, 12 Jan 2000 Rev. 4, 16 Mar 2005 Rev. 5, 07 April 2005 Rev. 6, 08 July 2005	
	SHEET 1 OF 1	Bell 212 Helicopter Rescue System
	DOCUMENT NO. A-309-DCL1	REVISION 6



01 INSTALLATION NOT TO SCALE



16 PLACARD

SEE NOTE 6
LENGTH = 1/2"
TEXT HEIGHT = 1/8"
TEXT COLOUR = RED
TEXT FONT = ARIAL BOLD
BACKGROUND COLOUR = WHITE

REV	DESCRIPTION OF CHANGE	INITIALS	DATE
1	ADDED NEW VIEW NOTES	EW	NOV 22/08
2	CAPENELL RELEASES MOVED TO CENTER OF A/C	EW	DEC 15/08
3	PART NO. IN NOTE CORRECTED	E. B.	08 JAN 2009
4	COMPLETELY REWRITES & UPDATES	EW	APR 27/09
5	UPDATED WITH NEW POSE CONFIGURATION, TAILBUCKLE STANDARDS	EW	MAY 17/09

NOTES

- MAXIMUM TOTAL SLING LOAD (INCLUDING ROPES) TO BE CONNECTED IS 800 LB.
- FLIGHT MANUAL SUPPLEMENT, THIS 30901, TO BE CARRIED ONBOARD AIRCRAFT WHEN THIS HELICOPTER RESCUE SYSTEM IS INSTALLED.
- ALL CARABINERS USED ON THE HELICOPTER RESCUE SYSTEM SHALL:
 - BE CERTIFIED BY AT LEAST ONE OF THE FOLLOWING STANDARDS ORGANIZATIONS AS HAVING AT LEAST MINIMUM STRENGTH AND FUNCTIONAL REQUIREMENTS:
 - THE UNION INTERNATIONALE DES ASSOCIATIONS D'ALPINISME (UIAA) (#21 ISSUED JANUARY 2004 OR SUBSEQUENT ISSUE.
 - THE NATIONAL FIRE PREVENTION ASSOCIATION (NFPA) (#183 EFFECTIVE AUGUST 11, 1985 OR SUBSEQUENT ISSUE.
 - THE EUROPEAN STANDARD (EN) 362 ISSUED FEBRUARY 15, 1983 OR SUBSEQUENT ISSUE.
 - THE EUROPEAN STANDARD (EN) 12277, TYPE K, Q, OR R, ISSUED JANUARY 2004 OR SUBSEQUENT ISSUE.
 - BE EQUIPPED WITH A LOCKING TYPE GATE.
 - BE CLEARLY MARKED BY THE MANUFACTURER WITH THE GUARANTEED MINIMUM STRENGTH OF THE MAJOR AXIS. CAUTION: ONLY ONE STRAP OR RING SHOULD BE INSTALLED INTO EACH END OF ANY CARABINER. ONLY ONE PERSON SHALL BE SUSPENDED FROM A CARABINER AT ANY TIME. USE OF ANY CARABINER AS A MASTER RING FOR SPLITTING OFF TWO OR MORE LOADS IS PROHIBITED.
- EQUIPMENT APPROVED FOR SUSPENSION ON THIS SYSTEM INCLUDES, AND IS LIMITED TO, THE FOLLOWING ITEMS:
 - HELICOPTER RESCUE SYSTEM SUSPENSION LINES (#30732-401, #30733-401)
 - HELICOPTER RESCUE SYSTEM FLIGHT BAG. REFER TO DWM DB807.
 - HELICOPTER RESCUE FLIGHT SYSTEM SCREAMER SUIT. REFER TO DWM DB808.
 - BILLY PUGH CO. INC. BPH-4 RESCUE NET (P/N STC BPH-7000-345)
 - PS OMB-SL40, CARLTON RESCUE EQUIPMENT (#757200 (2 FT.) OR #757200 (3 FT.), PART NO. BPH.5)
 - OR ALTERNATE SLING CONFORMING TO THE STANDARDS OF EN 566 OR UIAA-105.
 - FULL BODY HARNESS THAT MEETS THE REQUIREMENTS OF ONE (OR MORE) OF THE FOLLOWING STANDARDS:
 - NFPA 1983, CLASS 3 FULL BODY HARNESS.
 - SAE AS 8043 FULL BODY HARNESS.
 - UIAA-105 FULL BODY HARNESS.
 - EN 12277 TYPE "A" FULL BODY HARNESS.
 - EN 12277 TYPE "B" FULL BODY HARNESS FOR PERSONS UNDER 40 KG.
 - EN 12277 TYPE "C" AND "D" HARNESSES IN COMBINATION.
 - FAA TSO C101 FULL BODY HARNESS.
- AND BE LABELLED AS HAVING MET THE MINIMUM STRENGTH REQUIREMENTS.
- SAFETY STRAP TO HELICOPTER CARGO HOOK IS OPTIONAL, AT OPERATOR'S DISCRETION, TO PROVIDE AN ADDITIONAL LEVEL OF SAFETY. FABRICATE PER EXTENSION LINE DRAWING, #30733-401, TOTAL LENGTH 8 FT.
- PRIOR TO FLIGHT, THE RESCUE PERSONNEL TO BE SUSPENDED WILL BE EQUIPPED AS FOLLOWS:
 - HARD HAT AND CLOTHING SUITABLE TO THE CURRENT ENVIRONMENTAL CONDITIONS.
 - A FUNCTIONING COMMUNICATION SYSTEM THAT PERMITS TWO-WAY COMMUNICATION BETWEEN ALL CREW MEMBERS AND RESCUE PERSONNEL.
 - JOINT CAPABLE OF CUTTING SUSPENSION LINE TO BE USED FOR PRECISE HELICOPTER IF SUSPENSION LINE BECOMES ENTANGLED IN TERRAIN OR OBSTACLES.
- INSTALL CAPENELL COVER, PART NO. 30805, OVER CAPENELL CLASP (NOT SHOWN FOR CLARITY).
- SUSPENSION LINE MAY BE EXTENDED IN LENGTH BY USING EXTENSION LINE (P/N #30733-401). SPECIFY 50 FOOT LENGTH OR OTHER LENGTH AS REQUIRED.
- INSTALL PLACARD (PART # 30801-16) ON INSTRUMENT PANEL IN FULL VIEW OF THE PILOT.

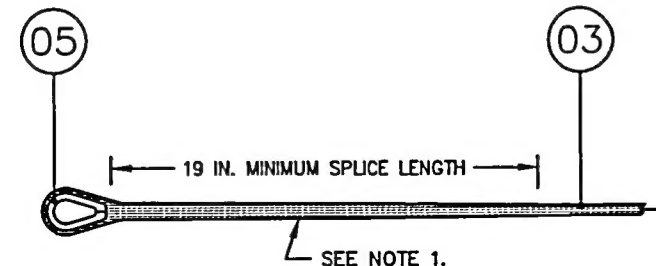
QTY.	PART NO.	ITEM	DESCRIPTION	MATERIAL SPEC.
1	30801-16	16	PLACARD (SEE NOTE 6)	SW SCOTCHCAL, 7725-10 (0.08mm) WHITE
1	FLWS 30801	15	FLIGHT MANUAL SUPPLEMENT	150/APFA/EE/AAA CERTIFIED (SEE NOTE 4)
		14	APPROVED FULL BODY HARNESS	150/APFA/EE/AAA CERTIFIED (SEE NOTE 4)
		13	PS OMB-SL40	CARLTON RESCUE #757200 (2 FT.) OR #757200 (3 FT.)
		12	BILLY PUGH RESCUE NET	CARLTON RESCUE #757200 (2 FT.) OR #757200 (3 FT.)
		11	SCREAMER SUIT	
		10	RESCUE BAG	
1	30805-01	07	CAPENELL COVER	
1	30733-401	06	EXTENSION LINE ASSEMBLY	OPTIONAL (SEE NOTE 3)
1	30733-401	05	LANYARD AND WEIGHT ASSEMBLY	OPTIONAL (SEE NOTE 3)
1	30733-401-5	04	SAFETY LINE ASSEMBLY	OPTIONAL (SEE NOTE 3)
1	30804-01	02	BELLY BAND ASSEMBLY (250" ONLY)	
1	30801-01	01	BELLY BAND AND SUSPENSION LINE INSTALLATION	

APPROVALS		DATE		LIST OF MATERIALS	
DESIGNED	M. KELBERT	SEPT. 8/08			
CHECKED	E. BROOKIN	SEPT. 10/08			
AERO DESIGN LTD. 2015 - 3978 AVENUE NORTHEAST CALGARY, ALBERTA T2E 0K7 HELICOPTER RESCUE SYSTEM BELLY BAND AND SUSPENSION LINE INSTALLATION				SCALE 1:4	REV. NO.
				A1	30901
				SHEET 1 OF 1	5

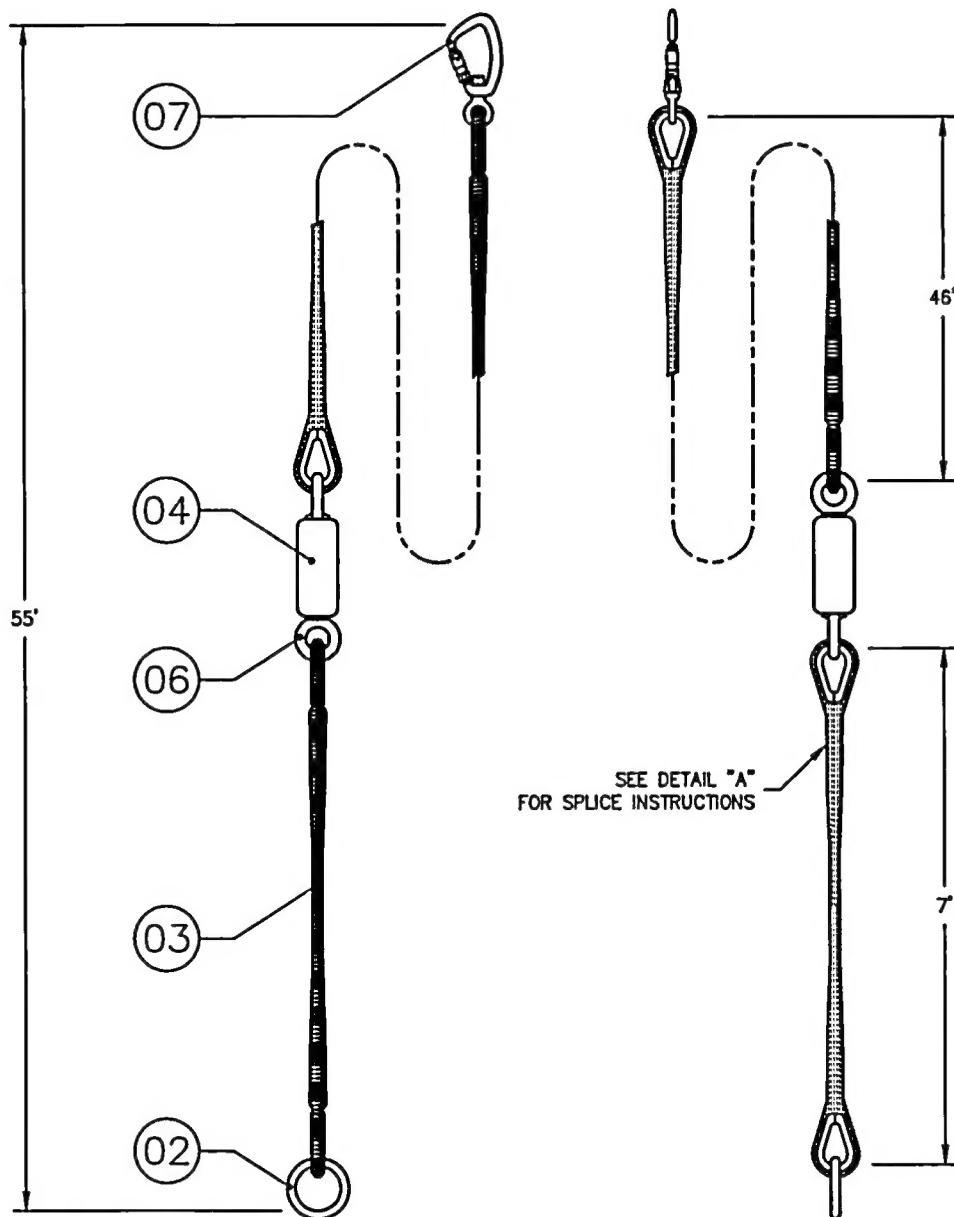
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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	NEW DRAWING, CREATED FROM -101	STF	MAR 14/05

NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. LANYARD LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.



DETAIL "A" - SPLICE DETAILS

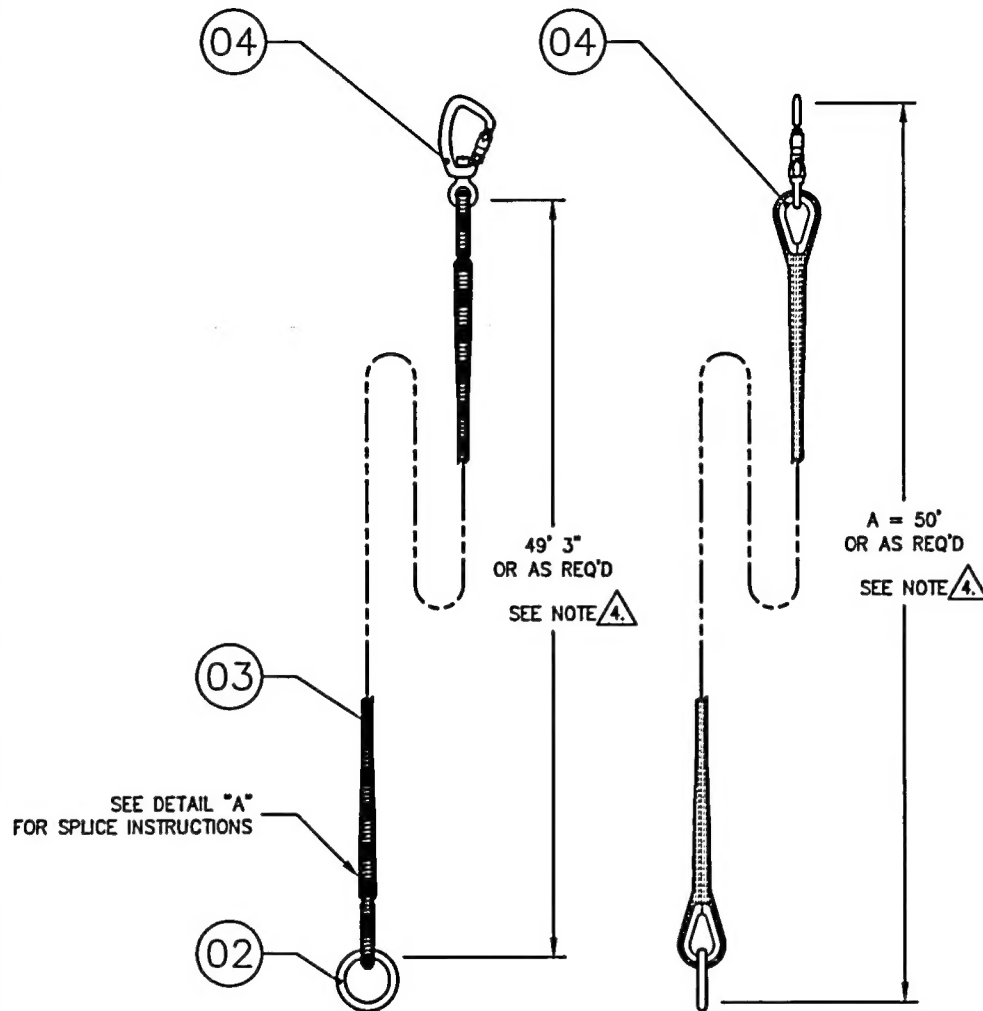


(01) LANYARD ASSEMBLY

1	C9531	07	SWIVEL-EYE CARABINER	PENINSULA SAFETY	ALT: DMM C970
2	S-279-9900235	06	SHOULDER EYE BOLT	CROSBY CANADA LTD.	
4	G414-1037893	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
	30734-401	04	WEIGHT ASSEMBLY (REF)		
A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1	5011	02	RING	CARLETON RESCUE	
	30732-401	50	LANYARD ASSEMBLY		55 FEET
50	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC.
LIST OF MATERIALS					

APPROVALS		DATE			
DRAWN: STEVEN FAHEY		MAR 14/05			
CHECKED: E. BURGOIN		MAR 14/05			
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:</p> <p>DECIMALS ANGLES</p> <p>X"-X" ± 6" -</p>		<p>AERO DESIGN LTD.</p> <p>CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 aerodesign@starpplanet.net</p>			
		<p>HELICOPTER RESCUE LINE</p> <p>HERZOG ULTRA-TECH ROPE SUSPENSION LINE</p> <p>LANYARD ASSEMBLY</p>			
		NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
		SHEET 1 OF 1	A4	30732-401	0

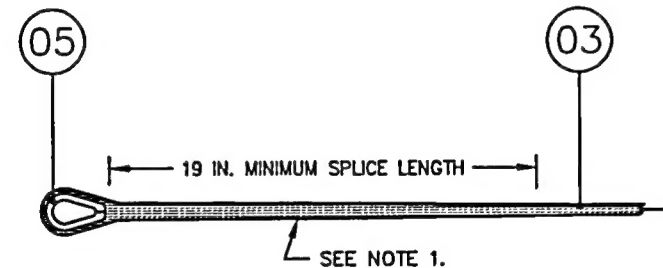
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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	NEW DRAWING, CREATED FROM -101	STF	MAR 14/05



NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. EXTENSION LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.

4. MINIMUM 4 FEET, TO ALLOW FOR SPLICING.



DETAIL "A" - SPLICE DETAILS

01 EXTENSION ASSEMBLY

2	2	G414-1037693	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
1	1	C9531	04	SWIVEL EYE CARABINER	PENINSULA SAFETY	ALT: DMM C970
A/R	A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON ROPE TECH. LTD.	7/16" DIA.
1	1	5011	02	RING	CARLETON RESCUE	
		30733-401	A	EXTENSION LINE ASSEMBLY (ALTERNATE)	SEE NOTE 4	DIMENSION "A" AS REQUIRED
		30733-401	50	EXTENSION LINE ASSEMBLY (50 FEET)		50 FEET
QTY.	QTY.	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC.
LIST OF MATERIALS						

APPROVALS		DATE		
DRAWN: STEVEN FAHEY		MAR 14/05		
CHECKED: E. BURGON		MAR 14/05		
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X"-X" ± 6" -</p>		<p>AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 0R7 tel: (403) 250-8027 fax: (403) 250-8333 aerodesign@telusplanet.net</p>		
		<p>HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE EXTENSION ASSEMBLY</p>		
		NOT TO SCALE	DWG. SIZE	DWG. NO.
SHEET 1 OF 1		A4	30733-401	0